

(19)



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(11)

EP 0 735 052 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
30.10.1996 Bulletin 1996/44

(51) Int Cl.⁶: C08F 2/38, C08F 4/04,
C08F 4/28, C08F 212/00,
C08F 220/00

(43) Date of publication A2:
02.10.1996 Bulletin 1996/40

(21) Application number: 96302248.8

(22) Date of filing: 29.03.1996

(84) Designated Contracting States:
DE FR GB

(30) Priority: 30.03.1995 US 413663

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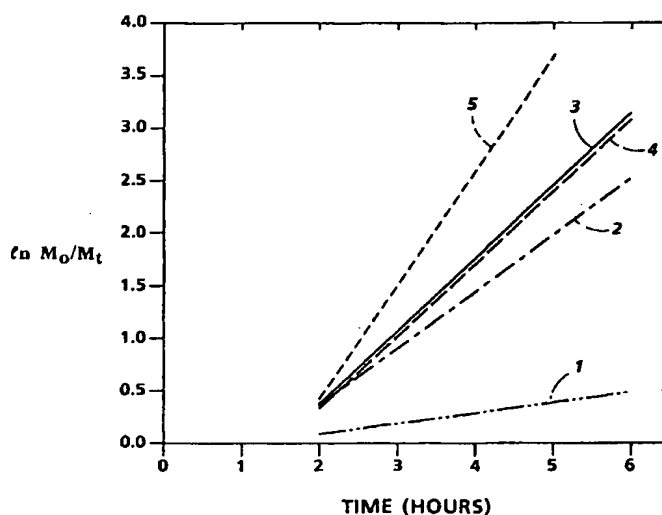
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(54) Rate enhanced polymerization processes for producing polymers having narrow polydispersitydispersität

(57) A polymerization process for the preparation of thermoplastic resin or resins comprising heating a mixture comprised of a free radical initiator, a stable free radical agent, at least one polymerizable monomer com-

pound, and a sulfonic acid salt polymerization rate enhancing compound, to form a thermoplastic resin or resins with a high monomer to polymer conversion and a narrow polydispersity.

FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 96 30 2248

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	WO-A-94 11412 (XEROX CORP) 26 May 1994 * the whole document *	1-10	C08F2/38
D,A	& US-A-5 401 804	1-10	C08F4/04
D,A	& US-A-5 332 912	1-10	C08F4/28
	---		C08F212/00
P,X	MACROMOLECULES, vol. 28, no. 24, 20 November 1995, COLUMBUS, XP002007955 P.G. ODELL ET AL.: "Rate Enhancement of Living Free-Radical Polymerizations by an Organic Acid Salt" * page 8453 - page 8455 *	1-10	C08F220/00

A	PATENT ABSTRACTS OF JAPAN vol. 017, no. 413 (C-1092), 3 August 1993 & JP-A-05 086106 (SEKISUI PLASTICS CO LTD), 6 April 1993, * abstract *	1-3,10	

A	US-A-5 283 153 (SACRIPANTE GUERINO G ET AL) 1 February 1994 * column 10, line 35 - line 42; claims *	1-3,10	

The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			C08F
Place of search		Date of completion of the search	Examiner
THE HAGUE		23 August 1996	Kaumann, E
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1500 (01/97) (P04001)